

### **WHAT IS CLAIMED IS:**

1. A flashlight, comprising:

a main body having an inside formed with a receiving space;

a power supply mounted in the receiving space of the main body; and

5 a temperature sensing plate mounted on a periphery of the main body  
and electrically connected to the power supply in a parallel manner.

2. The flashlight in accordance with claim 1, wherein the temperature  
sensing plate has a substantially trapezoid shape.

3. The flashlight in accordance with claim 1, wherein the temperature  
10 sensing plate has a first end and a second end having a width greater than that  
of the first end, so that the temperature sensing plate has a width gradually  
increased from the first end to the second thereof.

4. The flashlight in accordance with claim 1, wherein the further  
comprising an indication portion mounted on the periphery of the main body  
15 10 and located beside the temperature sensing plate.

5. The flashlight in accordance with claim 4, wherein the indication  
portion has a start point aligning with the first end of the temperature sensing  
plate.

6. The flashlight in accordance with claim 4, wherein the temperature  
20 sensing plate co-operates with the indication portion, so as to exactly indicate  
the usable time that the residual electric power of the power supply can  
support.

7. The flashlight in accordance with claim 1, wherein the temperature sensing plate is used to function as a power detection member of the power supply.

8. The flashlight in accordance with claim 1, further comprising an illumination device mounted on a first end of the main body, and a switch mounted on the main body to control connection between the illumination device and the power supply.

9. The flashlight in accordance with claim 8, wherein the switch is started to form a short circuit, so that the temperature of the temperature sensing plate is increased, and the temperature sensing plate is heated to produce color variation.

10. The flashlight in accordance with claim 1, further comprising a first conductive plate mounted in the receiving space of the main body, a cover mounted on a second end of the main body and having a side provided with a second conductive plate communicated with the receiving space of the main body.

11. The flashlight in accordance with claim 10, wherein the power supply has a positive side connected to the first conductive plate and a negative side connected to the second conductive plate.

12. The flashlight in accordance with claim 3, wherein the color of the temperature sensing plate is gradually changed from the shorter first end of

the temperature sensing plate to the longer second end of the temperature sensing plate.

13. The flashlight in accordance with claim 1, wherein by the zone of the color variation of the temperature sensing plate, the electric power of the power supply can be detected, so that the user can identify magnitude of the electric power of the power supply.